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L4	250	706/13.ccls.	US-PGPUB; USPAT	OR	OFF	2005/04/29 17:12
S1	209	genetic adj (design algorithm) and (parent children offspring) same (profile\$ outline layout design schema structure) and (segment\$ collection\$ groups grouping\$ cells component\$ section\$)	US-PGPUB; USPAT	OR	OFF	2005/04/28 17:09
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S9	14	S8 and automobile	US-PGPUB; USPAT	OR	OFF	2005/04/28 17:10
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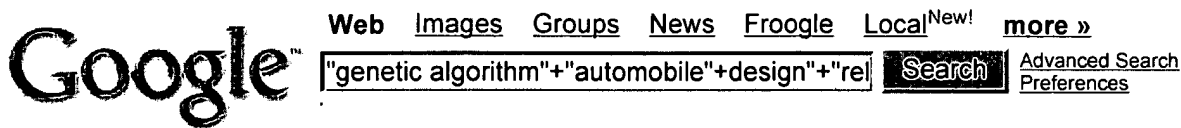
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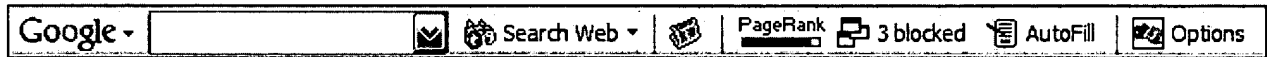
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Fuzzy Information, 2004. Processing NAFIPS '04. IEEE Annual Meeting of the
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1 [Reconstructing occlusal surfaces of teeth using a genetic algorithm with simulated annealing type selection](#)

Vladimir Savchenko, Lothar Schmitt

 May 2001 **Proceedings of the sixth ACM symposium on Solid modeling and applications**

Full text available: pdf(708.02 KB)

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In this paper, we present an application of numerical optimization for surface reconstruction (more precisely: reconstruction of missing parts of a real geometric object represented by volume data) by employing a specially designed genetic algorithm to solve a problem concerning computer-aided design in dentistry. Using a space mapping technique the surface of a given model tooth is fitted by a shape transformation to extrapolate (or reconstruct) the remaining surface of a patient's tooth with ...

Keywords: computer-aided restoration design, constructive solid geometry, genetic algorithm, simulated annealing, space mapping, surface reconstruction, volume modeling

2 [Artificial intelligence #1: Automated selection of auto crash causes](#)

Huanjing Wang, Hui-Chuan Chen, Allen Parrish

 April 2004 **Proceedings of the 42nd annual Southeast regional conference**

Full text available: pdf(260.66 KB)

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The University of Alabama has developed a software system called the Critical Analysis Reporting Environment (CARE). CARE was designed to provide information for the analysis of automobile crash data. One of the most important applications of CARE is in enabling the decision maker to determine what causes crashes. In this paper, a modified genetic algorithm is used to identify the potential problem areas which are the combination of causal attributes. To find the combination of attributes that c ...

Keywords: accuracy, approach, attribute, automobile crash, coverage, distance, genetic algorithm, variable

3 [Evolutionary co-operative design between human and computer: implementation of "the genetic sculpture park"](#)

Duncan Rowland, Frank Biocca

February 2000 **Proceedings of the fifth symposium on Virtual reality modeling language (Web3D-VRML)**

Full text available:  [pdf\(1.98 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Genetic Sculpture Park seeks to blur the distinction between artist and observer and to empower the novice in the creation of complex computer graphic models. Each visitor to the park experiences a unique set of forms and engages in a co-operative dialogue with the computer to produce more aesthetically pleasing designs. Inspired by Darwin's Theory of Evolution, Genetic Algorithms are used to allow visitors to 'breed' forms tailored to his or her own individual sense of aesthetics. This ...

4 **SELECTED AI-RELATED DISSERTATIONS**

Bob Krovetz
January 1987 **ACM SIGART Bulletin**, Issue 99

Full text available:  [pdf\(749.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

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5 **Link analysis ranking: algorithms, theory, and experiments**

Allan Borodin, Gareth O. Roberts, Jeffrey S. Rosenthal, Panayiotis Tsaparas
February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1


Full text available:  [pdf\(1.72 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The explosive growth and the widespread accessibility of the Web has led to a surge of research activity in the area of information retrieval on the World Wide Web. The seminal papers of Kleinberg [1998, 1999] and Brin and Page [1998] introduced *Link Analysis Ranking*, where hyperlink structures are used to determine the relative *authority* of a Web page and produce improved algorithms for the ranking of Web search results. In this article we work within the hubs and authorities fram ...

Keywords: Bayesian, HITS, Web search, link analysis, ranking

6 **Using Prediction for Performance Optimization and Estimation: Wire layer geometry optimization using stochastic wire sampling**

Raymond A. Wildman, Joshua I. Kramer, Daniel S. Weile, Phillip Christie
April 2002 **Proceedings of the 2002 international workshop on System-level interconnect prediction**

Full text available:  [pdf\(134.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The variation of in-plane interconnect geometry (pitch and width) as a function of wiring level results in improved system level performance because the properties of each wiring layer may be tailored to the characteristic lengths of the wires allocated to it. Performance metrics such as interconnect functional yield, and power dissipation are well suited to layer-by-layer optimization since they are determined by geometrical properties integrated across the wiring layer. The cycle time of a cir ...

Keywords: Rent's rule, genetic algorithms, interconnect, optimization

7 **Interactive document retrieval with relational learning**


Masayuki Okabe, Seiji Yamada
March 2001

Proceedings of the 2001 ACM symposium on Applied computingFull text available:  [pdf\(162.72 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**Keywords:** information retrieval, relational learning, relevance feedback

- 8 Special section on sensor network technology and sensor data management: An environmental sensor network to determine drinking water quality and security 
Anastassia Ailamaki, Christos Faloutsos, Paul S. Fischbeck, Mitchell J. Small, Jeanne VanBriesen
December 2003 **ACM SIGMOD Record**, Volume 32 Issue 4


Full text available:  [pdf\(72.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Finding patterns in large, real, spatio/temporal data continues to attract high interest (e.g., sales of products over space and time, patterns in mobile phone users; sensor networks collecting operational data from automobiles, or even from humans with wearable computers). In this paper, we describe an interdisciplinary research effort to couple knowledge discovery in large environmental databases with biological and chemical sensor networks, in order to revolutionize drinking water quality and ...

- 9 Book preview: The design of computer supported cooperative work and groupware systems 

R. Traunmuller
December 1996 **interactions**, Volume 3 Issue 6

Full text available:  [pdf\(1.85 MB\)](#) Additional Information: [full citation](#), [index terms](#)



- 10 Tailor: creating custom user interfaces based on gesture 

Randy Pausch, Ronald D. Williams
August 1990 **Proceedings of the 3rd annual ACM SIGGRAPH symposium on User interface software and technology**

Full text available:  [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

- 11 An Evolutionary Scheme for Cosynthesis of Real-Time Systems 

S. Chakraverty, C. P. Ravikumar, D. Roy Choudhuri
January 2002 **Proceedings of the 2002 conference on Asia South Pacific design automation/VLSI Design**

Full text available:  [pdf\(334.89 KB\)](#) Additional Information: [full citation](#), [abstract](#)
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We consider the problem of hardware-software cosynthesis of application-specific embedded real-time systems. We assume that these systems are based on a heterogeneous multiprocessor architecture. One of the key problems in the synthesis of such systems is that of scheduling the real-time tasks. Conventional approach to the problem has been to use a task graph to describe the dependencies among tasks and to assign constant weights to the nodes and edges of the graph. The node weights represent ta ...

Keywords: Hardware software co-synthesis, embedded real-time systems, multiprocessor architectures, stochastic task scheduling, hierarchical genetic algorithm

12 Voltage reduction of application-specific heterogeneous multiprocessor systems for power minimisation

Allan Rae, Sri Parameswaran

January 2000 **Proceedings of the 2000 conference on Asia South Pacific design automation**


Full text available:  [pdf\(86.03 KB\)](#) Additional Information: [full citation](#), [references](#)



13 Motion sketching for control of rigid-body simulations

Jovan Popović, Steven M. Seitz, Michael Erdmann

October 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 4

Full text available:  [pdf\(156.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Motion sketching is an approach for creating realistic rigid-body motion. In this approach, an animator sketches how objects should move and the system computes a physically plausible motion that best fits the sketch. The sketch is specified with a mouse-based interface or with hand-gestures, which move instrumented objects in the real world to act out the desired behaviors. The sketches may be imprecise, may be physically infeasible, or may have incorrect timing. A multiple-shooting optimizatio ...

Keywords: Physically based animation, animation with constraints, user interface design



14 Lowering the barrier to wireless and mobile experimentation

Brian White, Jay Lepreau, Shashi Guruprasad

January 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 1

Full text available:  [pdf\(204.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



The success of *ns* highlights the importance of an infrastructure that enables efficient experimentation. Similarly, Netbed's automatic configuration and control of emulated and live network environments minimizes the effort spent configuring and running experiments. Learning from the evolution of these systems, in this paper we argue that a live wireless and mobile experimental facility focusing on ease of use and accessibility will not only greatly lower the barrier to research in these ...



15 Swarm intelligence: power in numbers

Peter Tarasewich, Patrick R. McMullen

August 2002 **Communications of the ACM**, Volume 45 Issue 8

Full text available:  [pdf\(438.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
 [html\(29.55 KB\)](#)

Following a trail of insects as they work together to accomplish a task offers unique possibilities for problem solving.



16 SALSA: the stochastic approach for link-structure analysis

R. Lempel, S. Moran

April 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 2

Full text available:  [pdf\(180.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Today, when searching for information on the WWW, one usually performs a query through a term-based search engine. These engines return, as the query's result, a list of Web pages whose contents matches the query. For broad-topic queries, such searches often result in a huge set of retrieved documents, many of which are irrelevant to the user.



However, much information is contained in the link-structure of the WWW. Information such as which pages are linked to others can be used to augment search ...

Keywords: Link-structure analysis, SALSA, TKC effect, hubs and authorities, random walks

17 Simulation in the next millennium

Sanjay Jain

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 2**

Full text available:  [pdf\(96.14 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



18 Recent advances in the modeling, scheduling and control of flexible automation

Wayne J. Davis, Duane Setterdahl, Joseph Macro, Victor Izokaitis, Bradley Bauman

December 1993 **Proceedings of the 25th conference on Winter simulation**


Full text available:  [pdf\(1.53 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)



19 Automating the design of graphical presentations of relational information

Jock Mackinlay

April 1986 **ACM Transactions on Graphics (TOG)**, Volume 5 Issue 2

Full text available:  [pdf\(2.45 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The goal of the research described in this paper is to develop an application-independent presentation tool that automatically designs effective graphical presentations (such as bar charts, scatter plots, and connected graphs) of relational information. Two problems are raised by this goal: The codification of graphic design criteria in a form that can be used by the presentation tool, and the generation of a wide variety of designs so that the presentation tool can accommodate a wide variety ...



20 Special issue on learning from imbalanced datasets: Minority report in fraud detection: classification of skewed data

Clifton Phua, Damminda Alahakoon, Vincent Lee

June 2004 **ACM SIGKDD Explorations Newsletter**, Volume 6 Issue 1

Full text available:  [pdf\(262.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper proposes an innovative fraud detection method, built upon existing fraud detection research and *Minority Report*, to deal with the data mining problem of skewed data distributions. This method uses backpropagation (BP), together with naive Bayesian (NB) and C4.5 algorithms, on data partitions derived from minority oversampling with replacement. Its originality lies in the use of a single meta-classifier (stacking) to choose the best base classifiers, and then combine these base ...

Keywords: fraud detection, meta-learning, multiple classifier systems





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1 [Reconstructing occlusal surfaces of teeth using a genetic algorithm with simulated annealing type selection](#)

Vladimir Savchenko, Lothar Schmitt

May 2001 **Proceedings of the sixth ACM symposium on Solid modeling and applications**

Full text available: pdf(708.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we present an application of numerical optimization for surface reconstruction (more precisely: reconstruction of missing parts of a real geometric object represented by volume data) by employing a specially designed genetic algorithm to solve a problem concerning computer-aided design in dentistry. Using a space mapping technique the surface of a given model tooth is fitted by a shape transformation to extrapolate (or reconstruct) the remaining surface of a patient's tooth with ...

Keywords: computer-aided restoration design, constructive solid geometry, genetic algorithm, simulated annealing, space mapping, surface reconstruction, volume modeling

2 [Artificial intelligence #1: Automated selection of auto crash causes](#)

Huanjing Wang, Hui-Chuan Chen, Allen Parrish

April 2004 **Proceedings of the 42nd annual Southeast regional conference**

Full text available: pdf(260.66 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The University of Alabama has developed a software system called the Critical Analysis Reporting Environment (CARE). CARE was designed to provide information for the analysis of automobile crash data. One of the most important applications of CARE is in enabling the decision maker to determine what causes crashes. In this paper, a modified genetic algorithm is used to identify the potential problem areas which are the combination of causal attributes. To find the combination of attributes that c ...

Keywords: accuracy, approach, attribute, automobile crash, coverage, distance, genetic algorithm, variable

3 [Evolutionary co-operative design between human and computer: implementation of "the genetic sculpture park"](#)

Duncan Rowland, Frank Biocca